



OTVARC Oscillator

The Oregon Tualatin Valley Amateur Radio Club Newsletter

April, 1994

Topic for this month:
Digital Signal Processing
By: Mr. Mike Fleming

A while back, we had a very interesting demonstration of a popular new type of equipment, the DSP or Digital Signal Processor. These units do some amazing things with received audio signals, and seem to have no end of practical uses for almost every aspect of our hobby.

Up until the arrival of the Digital Interactive DSP-120ELX, most of the devices were stand alone units. April's program will be a demonstration by Mike Fleming, the brains behind Digital Interactive Signal Corporation of Vancouver, WA. See how to use your computer as an integral part of the latest in DSP! This should be a very informative and interesting program. I hope to see you all there!

Security at Sea Pac -- Volunteers Wanted!

Sea Pac Security is being managed by Hoodview Amateur Radio Club this year on June 3, 4 and 5. Those wanting to volunteer to help should contact Frank KB7OMB at (503) 663-3131. There are 2 hr. time slots from 8 am to 8 pm Fri. and Sat., 8 am to 6 pm Sun.

5th Annual Ham of the Year and Club of the Year Awards

Sea-Pac will present the fifth annual awards for the outstanding amateur radio operator and the outstanding club at the Grand Awards Presentation on Sunday, June 5th at 1:00PM

Ham Of The Year: Presented to a ham who has made a consistent contribution to the hobby. The winner will receive a plaque in recognition of the honor. Contact Randy Stimson, KZ7T, at (503) 297-1175 by April 15th. We will evaluate the first 15 nominees.

Club Of the Year: Presented for consistent contribution to amateur radio. The Club award is \$300. Please contact Susan Benson, N7EPE, at (503) 640-1989 by April 15th with your recommendation.

From the warped mind of the President:

Last month, I spoke about being prepared. This month, I will continue on the topic. During April, the state EOC will be holding their annual emergency preparedness SET. It will involve all the various agencies involved with emergency services but will also include the utilities, public services, hospitals and Amateur Radio Operators.

Starting Wednesday, the 13th of April, at about 10:00 in the morning, the State of Oregon EOC will declare the beginning of the 1994 Earthquake Drill. At this time, as it should be, we, the amateur community, have no idea just what exactly our involvement will be. We also don't know what resources will be available for use. That includes what repeaters might be unusable due to damage, commercial power availability, traffic movement etc. What does that mean in layman's terms? It means that according to the scenario that has been designed for the exercise, the 147.320 machine may be inoperable due to simulated damage. It will still be working probably, but for the purpose of the exercise, it will not be usable by the District 1 ARES net control stations. So what do we do if that happens?

How many of us know what the primary simplex frequency is for our local ARES/OEM? What is the club simplex frequency? What is the club repeater frequency? Who is our contact person in case of a natural disaster or emergency? These are all questions that should be answered before the shaker hits. Remember back to last month and being prepared? It involves more than just what equipment you have in ready. It

means, where is your call-up phone list? Is it current? How do you contact your family? Do you have a family meeting place if you are separated from each other?

Questions, questions, questions. Don't they ever stop? Not if you don't know the answers. The time to start preparing is NOW. Not when it is 10 minutes after the fact and you are sitting there wondering what happened. Take control of your situation.

So how do we learn? (Another question!) The answer is pretty simple. Get involved. Get involved at the club level by contacting our emergency services representative - Tim N7UCA (His number is listed in the roster and this publication). At a local level, contact your local ARES group. Each county has at least 1 ARES affiliate. For Washington County, it is Washington County ARES and the contact person is Ben Johnson who is the EC (Emergency Coordinator). His call is N7OGM. You can usually find him on the 146.90 repeater every Tuesday evening at 1900 local time.

You can also contact the Washington County Office of Emergency Management. They have the information concerning the various local groups who provide amateur radio emergency services.

OK, so you have decided to get involved. What type of things will you be expected to do? It really depends on what you have available as far as equipment, transportation, training, etc. If you live in a location where you have good coverage on simplex, you may be asked to work as a relay station for those other hams who are having a problem reaching the net control station. You might be asked if you would respond to a location that has been designated as a disaster relief station. Once there, you would be assigned duties varying from that of message relay, to keeping a log. You might be asked to make first hand

Cont. next page --

April's Word Find



Barbara Sue Seal

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F Z E Z X K F D M K K F T M M X T M X W R M R
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V Z N C C O M M U N I C A T I O N S J E X X Q
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Advanced

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observations of any damage in your neighbor and report them back to the NCS (Net Control Station). There are any number of things that you can do to help and they are all important to the continued smooth flow of information.

So how does the reporting process work. I will give you a brief explanation of how the ARES structure is defined. Each state is broken down into districts. Within a district, there are 2 or more counties. Within each county, there may be one or more clubs, service groups, etc. who provide the support. The county handles, via its own net, any information concerning the county. The county ARES has a representative who reports to the District NCS along with the other counties in the district. That district NCS then in turn reports to the state EOC via the state net, packet, repeater etc.

If there is a disaster in your area, the first place you should check is with your local group. You may then be directed to tune to the county frequency for assignment. The district frequencies should be maintained for the transfer of information at the district level. It is acceptable to monitor those frequencies but reporting should be handled on the local level repeaters/frequencies so that the amount of traffic is kept to a minimum at the district level. This is important especially in the case where more than just a local isolated area has been involved. The district net will be the clearing house for information into and out of the area. It is like the old Civil Defense "Conelrad". If you heard the sirens, you tuned to 620 or 1220 on your AM dial.

Once you are on the net, what next? Tune in next month. Our speaker topic in May will be Emergency Services and our speakers will be representatives of the local OEM (Office of Emergency Management), and the local ARES community.

In the meantime, get involved. Give Tim a call and let him know that you are interested.

Until we meet again.... Same Ham

Time, Same Ham Station. This is Bill - The Old Grey Bear saying - 73 from the edge of reality.

=====

Phone interference survey

The FCC has released the results of a telephone interference survey just completed. 35 FCC field offices each picked three random cases of telephone interference on record and then visited the scene. The transmitting stations included 47 Citizens Band; 27 Amateur; 23 AM broadcast; 10 FM broadcast; and one international broadcast station.

At the location experiencing interference, the FCC's Field Operations Bureau personnel would first test the telephones on site, and then test their own "bulletproof" telephones, as well as several commercially available filters. 241 different telephones were tested.

Among the FCC's conclusions was that transmitter power did not seem to be a significant factor; they said that 10 watts or less caused telephone interference in one-third of the cases.

The FCC also said that filters worked only one-third of the time. "Manufacturers can design telephones to be interference free," the Commission said, citing its bulletproof telephones, which were immune from interference "virtually all of the time."

The FCC said that it hopes that the survey will encourage affected parties "to productively address and resolve this problem."

If you would like a copy of the survey, which includes a list of telephone models checked, send an SASE with two units of first class postage to the Technical Information Service at ARRL HQ.

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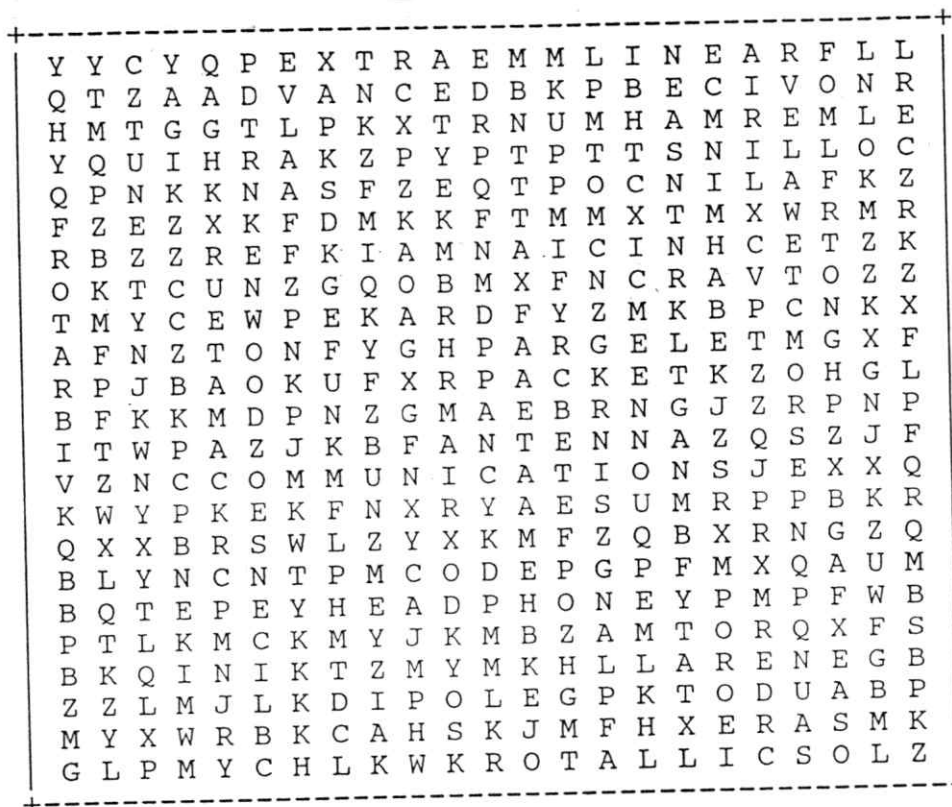
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April's Word Find



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Amsat
Amtor
Antenna
Baudot
Beam
Bug
Code
Collins
Communications
Dipole
Drake

Elmer
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General
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Headphone
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Grand Awards

Need Not to Be Present

ICOM IC-707 HF Transceiver
ALINCO DR-600TDual Band Mobile
YAESU FT-416 2m HT
KENWOOD TH-42AT 440 HT
CUSHCRAFT R7 Vertical Antenna

Must be present

YAESU FT-5100 Dual Band Mobile
ICOM IC-2SAT 2m HT
KENWOOD TH-22AT 2m HT
ALINCO DJ-F1T 2m HT
STARTEK ATH-15 Frequency Counter

(NONE BY PROXY - YOU MUST BE PRESENT)

Early Bird Awards

Registrations

Postmarked By:
April 30, 1994
will be eligible for
Early Bird Awards:

MFJ-207 HF SWR Analyzer

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_____ Teens Convention Registration at \$2.00 ea. (No Awards) \$ _____
_____ Children 12 and under FREE
_____ Flea Market Tables At \$10 per table per day or \$17 per table for 2 days \$ _____
_____ Saturday QCWA Lunch At \$10.00 (120 person limit) \$ _____
_____ Saturday Other Program Luncheon at \$10.00 (80 person limit) \$ _____
_____ Saturday Banquet Salmon Dinner at \$20.00 \$ _____
_____ Saturday Banquet Prime Rib Dinner at \$20.00 \$ _____
300 Person Limit

NOTE: Flea Market Participants must
be registered for the convention

Registration Questions
Brad 503-657-1781

Total \$ _____

NAMES (please print)

Calls

Address _____

City _____ State _____ Zip _____ Phone _____

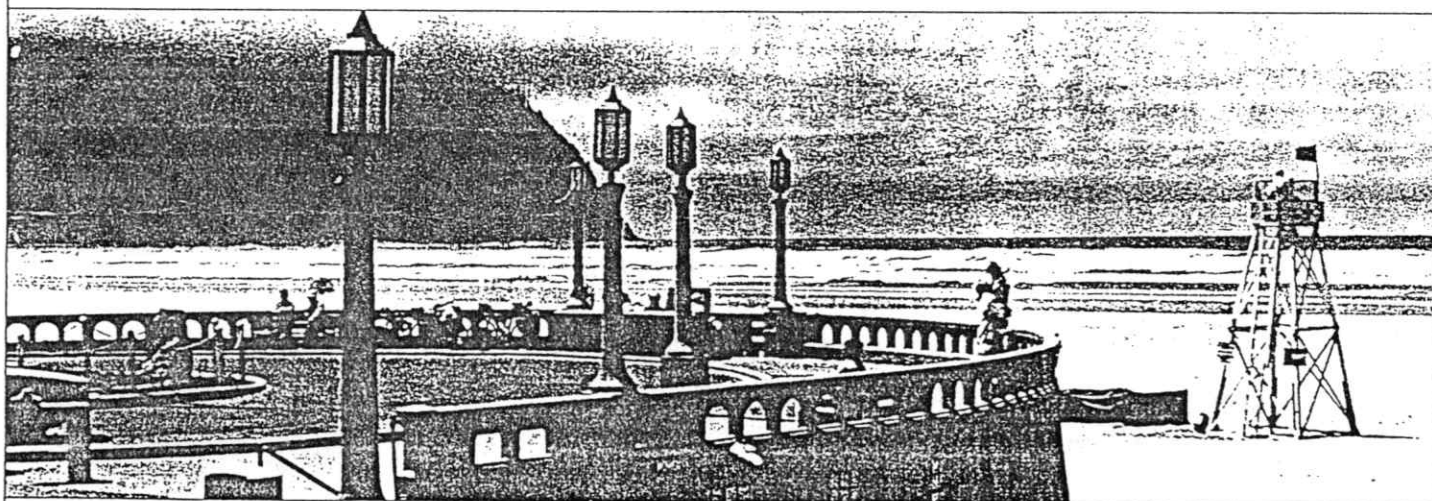
"The Northwest's Largest Ham Convention"



NORTHWEST DIVISION HAM CONVENTION

June 4 & 5, 1994

Seaside Convention Center, Seaside Oregon



Highlights

Friday Night Bingo
at Our Lady of Victory
Catholic Church
see page 3

Ladies Activities
see page 2

F.A.R.S.-AEA CW Contest
see page 4

Seminars and Forums
see Page 6

VE Testing
see Page 5

Banquet

"A Tour of The Universe"
Jim Young, WB6FNI
Jet Propulsion Laboratories

Westlink Report
Young Ham of the Year
Award

see page 6

Early Bird Awards

MFJ-207
HF SWR Analyzer
ICOM IC-2GXAT
VHF Handheld Transceiver
see page 7

ARRL Guests

Rosalie White, WA1STO
Educational Activities
Manager

Ed Hare, KA1CV
RFI Expert

John Bloom, KE3Q
DSP Expert

Zack Lau, KH6CP/1
Project Building Expert

see page 6

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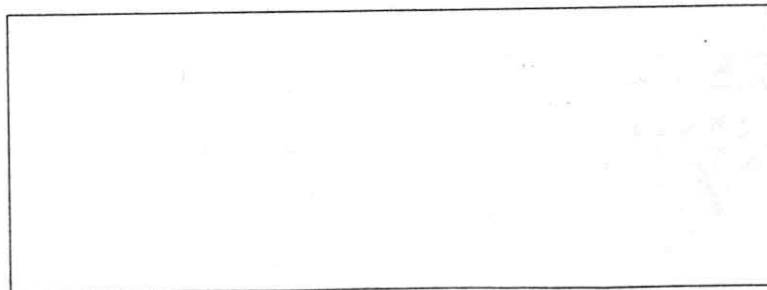


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Aloha, Oregon 97006-0132

Address Correction Requested



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OTVARC Club Contacts

OTVARC Executive Board

President	Bill Merwin	N7VZF	644-1974
Vice Pres	Chris Black	N7MWL	
Secretary	Brad Beach	N7NVC	657-1781
Treasurer	Tim Taylor	N7UCA	292-5430
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Rick Rasch	KB7NTT	641-7419
Trustee	Camber Bybee	KB7RGX	
Trustee	Lynn Hurd	WB7UNU	649-9152
Trustee	Wes Allen	K7WWG	649-3295

Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	297-2732
Bunny Hunting	OPEN		
Contesting	OPEN		
DX News	Rich Jones	KG7FS	645-9417
Equipment Valuation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services	Tim Taylor	N7UCA	292-5430
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare			
Member Badges			
Newsletter Editor	Les Turner	KB7SSE	640-8873
Newsletter Layout	Doug Reeves	N6XHW	833-8504
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nomination of Officers			
Project Night			
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	N7PEX	640-0217
Satellites	Red Robert	AA7CP	357-5747
Scholarship	Pat Griffiths	KA7UFG	649-0837
Sea-Pac	Al Berg	WB7SIC	640-5456
	Brad Beach	N7NVC	657-1781
	Jim Schaeffer	KB7ADH	245-2518
	Alan Churchill	AA7CV	639-5660
Technical	Joe Boyd	N7VZS	678-2188
Tower Ordinances	Stan Griffiths	W7NI	649-0837
Trailer	Dee Lynch	KA7NPN	646-4580
Training (Code)	Tom Durell	KG7RD	
Training (Novice/Tech)	Dave Morrison	W7JXU	645-8788
Training (Upgrade)	Joe Boyd	N7VZS	678-2188
VE Testing			
VE Test Schedule	John Klein	KA7ICV	281-0798
VHF/UHF	Bill Roth	N7RYW	297-7605

OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a non-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

1. Education & training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club: OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

Newsletter: The OTVARC Oscillator is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views and recommendations of its contributors are not necessarily those of the Club, it's officers, advertisers or the editorial staff.

Correspondence: All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time from January through June and July through December. All ads must be paid for in advance. Rates for 1994 are as follows:

Full Page	8" X 10"	\$200 for 6 months.
Half Page	8" X 5"	\$125 for 6 months.
Qtr Page	4" X 5"	\$75 for 6 months.
Bus Card	2" X 3"	\$35 for 6 months.

Meetings: We have two meetings per month. The board meeting is on the first Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Club, 3500 SW 104th Ave (1 block off Canyon road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.

Membership: OTVARC is open to anyone. You do not need to be a licensed radio amateur to join. Dues are as follows: Full member, \$10/yr; Associate member (nonlicensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club Treasurer for prorated dues.

How to Join: Simply mail the Member Application and Renewal Form along with your dues to the address above.

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National Exam Days --- From Alan Roehl, KO7B

The ARRL has designated May 14th and October 29th as "National Exam Days" for 1994. Although there are other clubs doing a fine job of offering exam opportunities in the Portland area, OTVARC could share part of the load by offering sessions on these dates.

In order to offer such sessions, we need someone to step forward and offer to fill the role of liaison. Several OTVARC members are qualified VE's, and any who holds an extra class license is qualified to be the liaison. If one of you will volunteer to try their hand at this role, I will help them get through the process for these sessions. If you are interested, or have any questions, please call me, Alan, at 206-574-3221.

HELP WANTED

With the Sea-Pac Convention approaching rapidly, it is time to recruit hostesses and helpers for the "Alternative Program" activities.

Held in the Ladies Hospitality Suite at the Huntley, duties will range from "hostessing" activities (keeping the coffee pots and cookie trays full, and the room tidy) to helping with the "Make It and Take It" craft workshop. No previous experience or specific skills are required - just your pleasant personality and a desire to have fun.

For the hostesses, there will be an organizational meeting on Thursday, April 14th, at 7:00 PM at my house, 10740 SW Sunny Hill Lane. We will outline schedules and discuss material requirements for the weekend.

On April 16th at 1:00 PM there will be a full afternoon devoted to the craft workshop, to review and experiment with the various projects planned. Participants at this session will become the helpers for the "Make It and Take It" workshop at Sea-Pac. The location for this meeting has yet to be selected, and

is dependent on the number of people interested in helping.

If you are interested in either of the above, please give me a call any evening at 644-1974, or contact me (KB7WJN) on Monday evenings after 8:00 PM on the 147.320 repeater.

-- Trudi Merwin KB7WJN

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given - Ed.)

If you would like to place an ad in
the OTVARC Newsletter, contact me,
Les Turner, <KB7SSE> at 640-8873
voice, or 640-8732 data/fax (24 hrs
on the data/fax line).

From the Editor's Desk:

Having been a ham now for over a
year, I think I have finally touched
upon one of the gravest problems the
radio amateur of today has to face:
WHERE DO I PUT ALL MY STUFF!?!?!?

I am luckier then some, I have a
relatively patient wife <KB7YFQ>, but
even with that I seem to wind up
standing on the one nerve she has
remaining after a long day of
Nursing. It seems that no matter how
hard I try, I continually usurp more
and more of that blessed item that is
a continual shortage for the average
amateur, space.

It doesn't help having a baby in the

house. I have discovered that my Emily, at 12 months, seems to be better at getting at my stuff by accident than I am on purpose. And it isn't going to get any better. You see, we are expecting another arrival in late May. I am frightened by the ramifications of that. Just think. If I am running out of room as it is, where the heck will I be then???

My little radio shack/computer area is a cloistered little section of our bedroom. If I want to rag chew late at night, I often do it at the risk of being beaten severely about the head and shoulders with a sledgehammer made out of silly putty. So here I sit, plunking away at the keys of this silly computer, trying to fit in between not only my 2m rig, but my lovely old Swan 350 <which I hope to be able to use as soon as I get my code learned... but that is another subject altogether!>, the computer that runs my bulletin board, my 2 printers, <absolute necessary, one for letters, (my unfailing daisy-wheel) and one for doing this kind of stuff (my dot matrix)>, and the redoubtable old XT I am using to do this on. Plus assorted stuff like monitors, tape backups, modems, speakers for the ham gear, power supplies, and so forth. It is my firm belief that my wife is ready to be canonized. Sainthood becomes her.

Probably the most unfortunate thing of all is that when the new baby arrives, I may find myself out of corners. Other than the bed, there is just enough room to breathe, assuming that we don't breathe in at the same time. Where is the bassinet for the baby gonna go. Two guesses, and I bet you get it right on the first try.

Ok. I can deal with that. I think. But where to store some of the stuff I have collected thus far? Off to the closet I go.... oops. Too late. Heather beat me to it by a landslide. Inside I found, <other than clothes>, various infant paraphenailia, including but not limited to: buntings, sleepers, toys, cute outfits, not to mention all of the other stuff that I had tucked away in desperation trying to come up with the room I had to begin with.

I begin to walk around with that typical "hunted" look that most ham operators must get when they are running out of room for their gear. Pouting is not necessarily out of the question if I thought it would help, but alas... the best I can do from her is "Quit sulking! Why don't we put some of your stuff in storage for awhile?" STORAGE?!?!?! I don't THINK so! But maybe I will fit into a smaller corner. Maybe. I can lose weight. I can even get a smaller chair. Maybe the bassinet will fit underneath the desk. Yeah, that's the ticket! I'll build a hideaway crib! Anyone out there got any plans for a teeny crib???

Alright, lets get realistic. If I go ahead and do that I am sure by day's end I will be seriously searching for another place for ALL of my stuff, including me! So what to do? Now it is time for the ever-popular ritual of compromise. Something that I am no good at. Well, I am ok, but nowhere near as good a negotiator as my wife. She could convince a Grizzly Bear that she needed his fur worse than he did, and then make him think it was his idea in the first place.

After it was all said and done, I still needed a place for some of my stuff, but at least I still have my desk. I built a tier on the desk for some of the computer and radio gear, with promises for more shelving as the arrival date draws closer. And I still wound up cleaning up the closet, to the tune of 3 boxes and 5 paper grocery bags of stuff I needed to dispose of. Mostly old papers, and junque that we figured I could live without. Barely.

But, on the bright side, I did get to keep most of my stuff..... actually I have a little bit of room in the far corner of the desk... I wonder if there is enough room for that extra radio I was looking at

----- Les

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